Page 1 of 2

70570 NOV 2 5 2003 DEGLAF

PRIOR FOREIGN APPLICATION(S)

Country

GB

<u>Number</u>

0227745.7

RULE 63 (37 C.F.R. 1.63) ARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Date Patented

or Granted

Priority Claimed

No

Yes

X

As a below harder in senter. Mereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED BLADE COOLING the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. Thereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

Date first Laid-

Open or Published

Day/MONTH/Year Filed

28 November 2002

I hereby claim domestic priority applications listed above or belothis application is in addition to material to patentability as definational or PCT international fi	benefit under 35 U.S.Cow and, if this is a conti that disclosed in such ned in 37 C.F.R. 1.56 iling date of this applic	C. 120/365 of the indica nuation-in-part (CIP) a prior applications, I ack which became available ation:	ated United States applica application, insofar as the mowledge the duty to dis e between the filing date	ations listed below and PCT international e subject matter disclosed and claimed in close all information known to me to be of each such prior application and the
PRIOR U.S. PROVISIONAL, NON Application No.(series code/serial no	EPROVISIONAL AND /C E) Day/MONTH/Ye) <u>Status</u> ndoned, patented <u>Yes</u>	Priority Claimed No
of Title 18 of the United States Code Thereby appoint the registered p	the knowledge that willful false; and that such willful false; practitioners represente	alse statements and the like statements may jeopardize d by Customer No.: 2	so made are punishable by fine the validity of the application 0736 to prosecute this an	inlication and transact all business in the
No.: 20736.	ice in connection there	with. Direct all corres	spondence to Manelli, I	Denison & Selter PLLC at Customer
1. INVENTOR'S SIGNATURE:	Roderick	M Town	es	DATE: 1 10 63 United Kingdom
Inventor's Name (typed)	Roderick	М	Townes	United Kingdom
	First	Middle Initial	Family Name	Country of Citizenship
Residence(City)	Derby	(State) Derbysl		
Post Office Address (Include Zi	o Code) <u>5 Amber R</u>	oad, Allestree. De	rby, DE22 2QB, En	gland
2. INVENTOR'S SIGNATURE:	•			_ DATE:
Inventor's Name (typed)				DATE.
Residence (City)	First	Middle Initial	Family Name	Country of Citizenship
Post Office Address (Include Zip				
3. INVENTOR'S SIGNATURE:				DATE:
Inventor's Name (typed)		(State)	Family Name	Country of Citizenship
Post Office Address (Include Zip	Code)			
INVENTOR'S SIGNATURE: inventor's Name (typed)				DATE:
		Middle Initial (State)	Family Name	Country of Citizenship
Residence(City) Post Office Address (Include Zip	Code)			
5. INVENTOR'S SIGNATURE:				_ DATE:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)

2

Attorney:

W. Warren Taltavull

Reg. No. Atty/Sec: 25647

Signature

TEL: (202) 261-1047

Date: November 25, 2003

Fax: (202) 887-0336

Page 1 of 2 Please return signed/recorded to: For Inventions made outside USA USA Patent Appln. executed with or after application NOV 2 5 2003 Sole or Joint Atty. Dkt. 73155 2547 Manelli. Denison & Selter 2000 M Street N.W. 7th Floor Washington, D.C. 20036 M# Client Ref. **NONPROVISIONAL** ASSIGNMENT **NONPROVISIONAL** OF NONPROVISIONAL APPLICATION In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to the undersigned, to wit: INSERT Roderick Miles Townes NAME(S) OF INVENTOR(S) (3) (3) X box if continued on page 2 the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto: Rolls-Royce plc, a British Company of INSERT 65 Buckingham Gate NAME(S) OF ASSIGNEE(S) & ADDRESS(ES) London SW1E 6AT **England** (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as TITLE OF INVENTION BLADE COOLING For which the undersigned executed an application for Letters Patent of the United States of America: NOTE (A) even date herewith (COMPLETE (B) [] on _ LINES A.B. AND/OR C) (C) [] in U.S. Application No. ____/ filed AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE

The undersigned hereby authorize(s) Manelli, Denison & Selter PLLC, of the above address to insert hereon any further identification necessary or desirable for recordation of this document. DATE SIGNED Name: Roderick Miles Townes 2) Name:

IF ADDITIONAL INVENTORS, check box [] and continue on page 2.

PATENT APPLICATIONS & PATENTS ONI			., 0		
TO THE HONORABLE COMMISSIONER OF PATEN	102613014	•	3 P		
TO THE HONORABLE COMMISSIONER OF PATEN SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUM	MENTS OR COPY THE	REOF.	9.00 9.00		
1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):	11-25		72/		
1. TOWNES, Roderick Miles 2.	4. 5.	03	154		
2. 3.	6.		22.		
ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTAC	CHED? YES	X NC	·		
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:					
NAME: Rolls-Royce plc					
65 Buckingham Gate London SW1E 6AT					
England			_		
ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?	YES	х	NO		
3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith only one document for recordation multiplication document)	ple copies of same Ass	ignment signed l	by different inventors		
is <u>one</u> document) x ASSIGNMENT OF x WHOLE PART	INTEREST EXEC. D	ATE: October 1	2003		
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4. EXECUTION DATE(S) ON THE DECLARATION <u>IF</u> FILED <u>SEE ATTY</u> !):	HEREWITH: (NOTE: IF	DATES ↑↓ DIF	FER		
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84712					
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Manelli, Denison & Selter PLLC	7. AMOUNT OF FEE ENCLOSED: (Code 581)				
SEVENTH FLR.	ABOVE TOTAL X \$40 = \$ 40				
2000 M STREET N.W. WASHINGTON, D.C. 20036 Att: Warren Taltavuli					
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2) Name: —				-						
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 17, 2004

PTAS

MANELLI, DENISON & SELTER PLLC W. WARREN TALTAVULL 2000 M STREET N.W., 7TH FLR. WASHINGTON, D.C. 20036



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ASSIGNOR:

TOWNES, RODERICK MILES

DOC DATE: 10/01/2003

ASSIGNEE:

ROLLS-ROYCE PLC 65 BUCKINGHAM GATE LONLON SW 1E 6AT, ENGLAND

SERIAL NUMBER: 10720333

PATENT NUMBER:

FILING DATE:

ISSUE DATE:

TITLE:

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